SQL Integration Object Instance

CUSTOMER 122i-1 120i

"Customer1" 411i
"San Mateo" 412i
"CA" 413i
"(534)456-8976" 414i
"Customer1 Org" 415i

CONTACT
122i-2-1

"1001" 431i-1
"Peter" 432i-1
"Sellers" 433i-1
"934-0987" 434i-1
"Customer1" 435i-1
"San Mateo" 436i-1

CONTACT
122i-2-2

"1002" 431i-2
"Sam" 432i-2
"Malone" 433i-2
"456-9876" 434i-2
"Customer1" 435i-2
"San Mateo" 436i-2

CONTACT
122i-2-3

"1003" 431i-3
"Bette" 432i-3
"Midler" 433i-3
"345-9876" 434i-3
"Customer1" 435i-3
"San Mateo" 435i-3 436i-3

PHONE
122i-3-2
"650" 461i-2 462i-2
"233-4434" 461i-2
"Phone" 461i-2 463i-2
"1001" 461i-2 464i-2

PHONE
122i-3-4
"640" 461i-4
"232-4455" 462i-4
"Phone" 463i-4
"1003" 464i-4

PHONE
122i-3-1

"510" 461i-1
"234-7656" 462i-1
"Fax" 463i-1
"1001" 464i-1

PHONE
122i-3-3

"408" 461i-3
"232-3322" 462i-3
"Fax" 463i-3
"1002" 464i-3

PHONE
122i-3-5

"223" 461i-5
"223-3333" 462i-5
"Phone" 463i-5
"1003" 464i-5

FIG. 5

```
                    ┌─────────────────────┐
                    │  Start New Current  │
                    │  Component SQL      │              ↙ 830
                    │  Statement   910    │
                    └─────────────────────┘
                              │
                              ▼
                         ╱─────────╲                ┌──────────────────────┐
                        ╱  Search   ╲               │ Generate SELECT Clause│
                       ╱ Spec Indicates╲─── Yes ───▶│ from Current Component │
                       ╲ All Records?  ╱            │  for All Records       │
                        ╲    912      ╱             │        920             │
                         ╲───────────╱              └──────────────────────┘
                              │                              │
                              No                             │
                              ▼                              │      ┌──────────────────┐
              ┌───────────────────────────────────┐         │      │  Start New        │
              │ Generate SELECT from Current Component│◀──────┴──────│  Current          │
              │ and WHERE Clauses  914              │                │  Component SQL    │
              └───────────────────────────────────┘                │  Statement        │
                              │                                     │     974           │
                              ▼                                     └──────────────────┘
                         ╱──────────╲                                        ▲
                        ╱  Room      ╲                                       │
                  ┌────╱ for Another  ╲─── No ──────────────────┐           Yes
                  │    ╲ Selection    ╱                          │            │
                  │     ╲ Clause? 916 ╱                          │      ╱──────────╲
                  │      ╲──────────╱                            │     ╱ Unmarked   ╲
                  │           │                                  │    ╱  Instances   ╲
                  │          Yes                                 │    ╲  in Search   ╱
                  │           ▼                                  │     ╲  Spec?     ╱
                  │  ┌──────────────────────────┐                │      ╲   972    ╱
                  │  │ Select Unmarked Instance of│               │       ╲────────╱
                  │  │ Current Component as Current│              │          │
                  │  │ Instance   930           │                │          │
                  │  └──────────────────────────┘                │          │
                  │           │                                  │          │
                  │           ▼                                  │          │
                  │  ┌──────────────────────────┐                │          │
                  │  │ Generate Selection Clause to│              │          │
                  │  │ Select Current Instance  940│              │          │
                  │  └──────────────────────────┘                │          │
                  │           │                                  │          │
                  │           ▼                                  │          │
                 Yes ┌──────────────────────────┐               │          │
                  │  │ Concatenate Selection Clause to│          │          │
                  │  │  WHERE Clause 950         │               │          │
                  │  └──────────────────────────┘               │          │
                  │           │                                  │          │
                  │           ▼                                  │          │
                  │  ┌──────────────────────────┐               │          │
                  │  │ Mark Current Instance 952 │               │          │
                  │  └──────────────────────────┘               │          │
                  │           │                                  │          │
                  │           ▼                                  │          │
                  │      ╱──────────╲         ╱──────────╲       │    ┌──────────┐
                  │     ╱ Unmarked   ╲       ╱ Current    ╲      │    │  Add     │
                  └────╱  Instances in╲─No─▶╱ Component    ╲─Yes─┴───▶│ Parent   │
                       ╲ Search Spec? ╱     ╲ is Child?    ╱          │ Selection│
                        ╲   955      ╱       ╲   960       ╱          │ Clause   │
                         ╲──────────╱         ╲──────────╱           │  970     │
                                                    │                └──────────┘
                                                   No                      │ No
                                                    ▼                      │
                                          ┌──────────────────┐            │
                                          │ Execute Current   │            │
                                          │ Component SQL     │──▶( end )◀─┘
                                          │ Statement   980   │
                                          └──────────────────┘
```
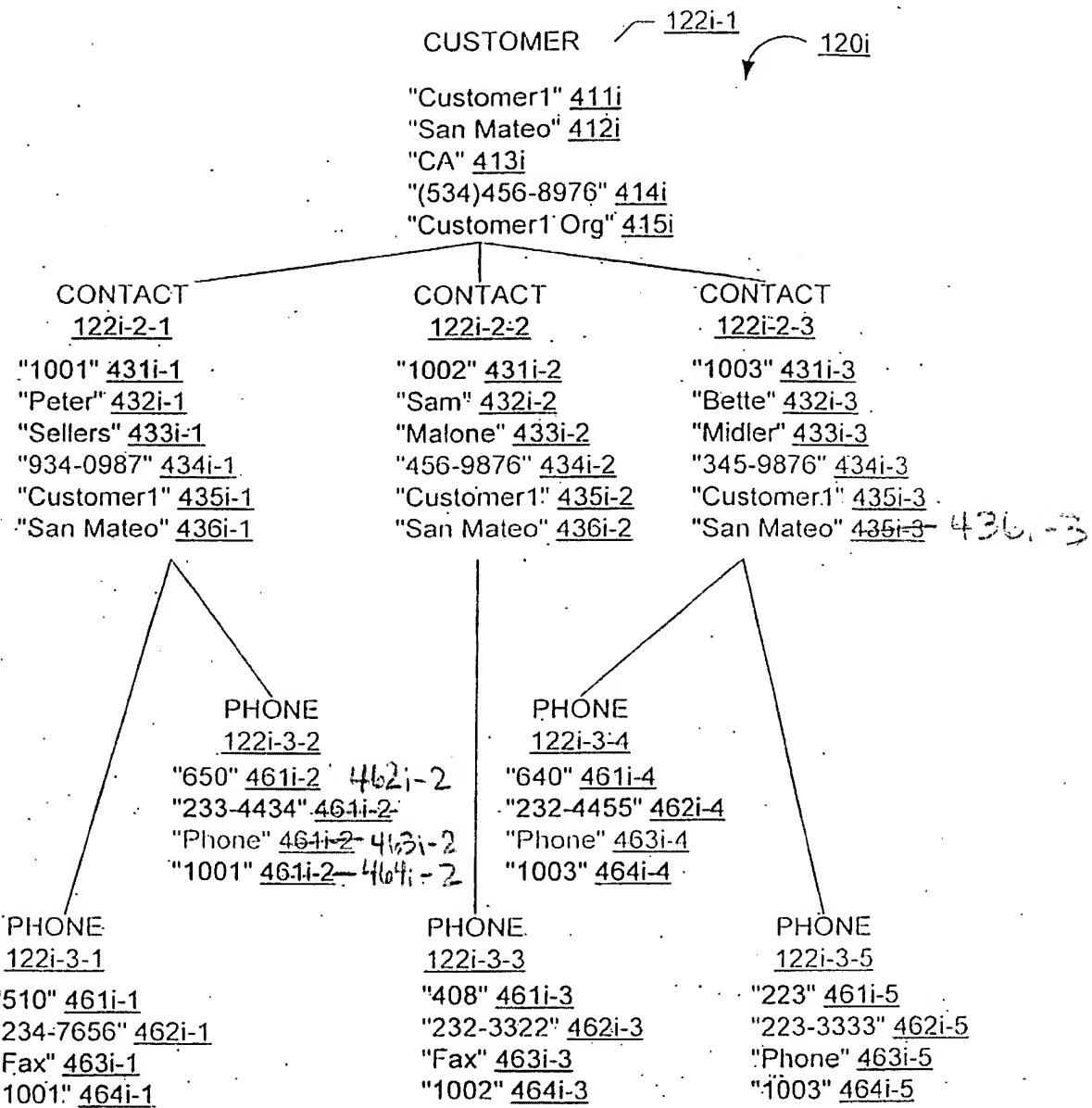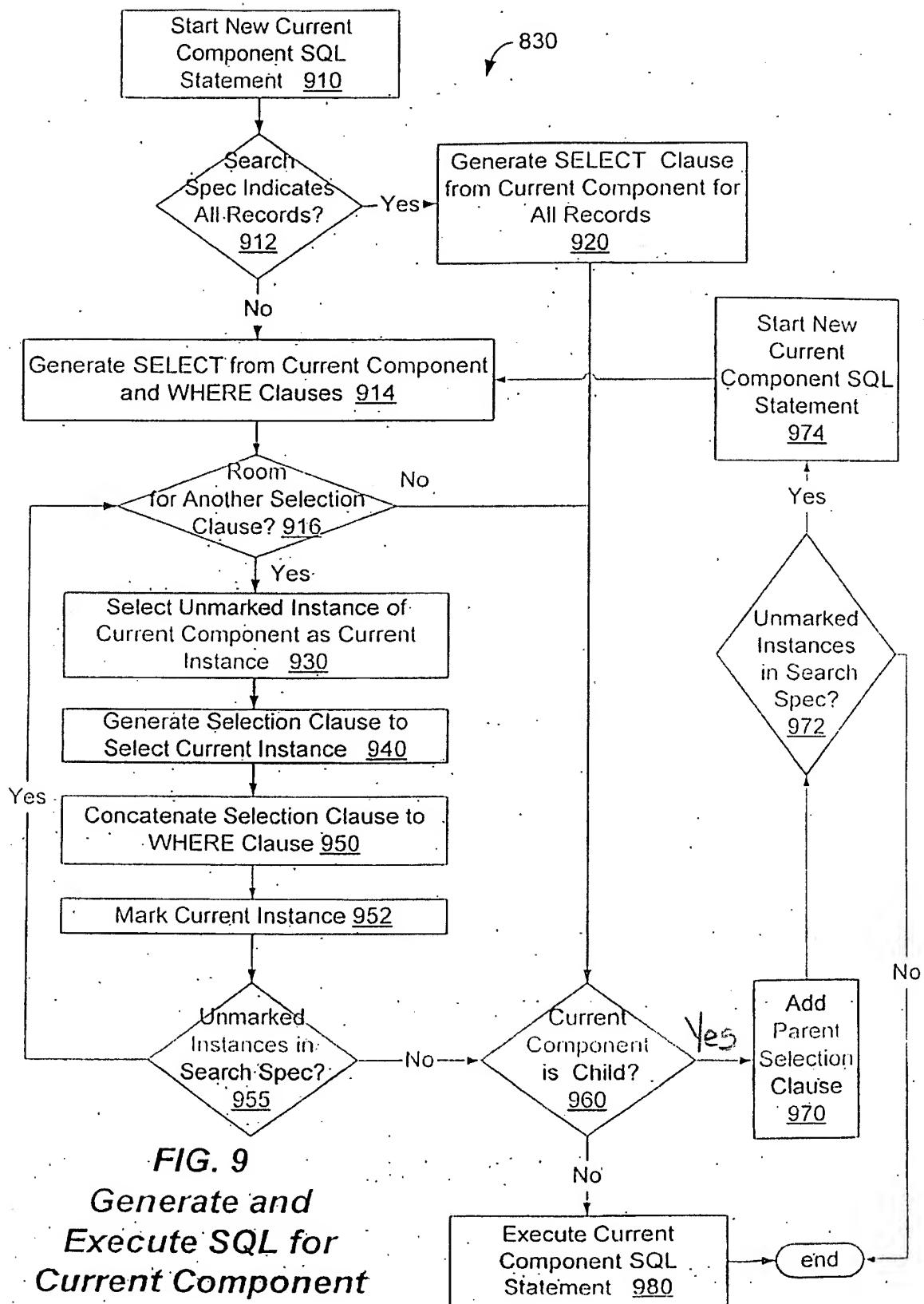
FIG. 9
Generate and
Execute SQL for
Current Component